

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A drug delivery device for animals, the device comprising:
 - a. at least ~~one~~two syringes;
 - b. ~~at least one~~a plurality of disposable tubes;
 - c. at least one catheter placed into an animal and connected to each of the at least ~~one~~two syringes by ~~at least one of the at least one~~the plurality of disposable tubes; and
 - d. at least one pinch valve, each pinch valve having a first position and a second position, wherein the second position receives one of the ~~at least one~~plurality of disposable tubes therethrough at a position located between the at least one catheter and one of the at least ~~one~~two syringes connected by the at least one disposable tube for control of fluid therebetween; and
 - e. at least a first and a second fluid reservoir, wherein each of the fluid reservoirs contains a fluid and wherein the first fluid reservoir is attached to one of the at least two syringes by one of the plurality of disposable tubes and wherein the second fluid reservoir is attached to another of the at least two syringes by one of the plurality of disposable tubes.
2. (Currently Amended) The drug delivery device of claim 1, further comprising at least ~~one~~two syringe pumps, wherein each of the at least ~~one~~two syringe pumps is associated with one of the at least ~~one~~two syringes, such that each of the at least ~~one~~two syringe pumps operates each of the at least ~~one~~two syringes independently of each other.
3. (Canceled)

4. (Currently Amended) The drug delivery device of claim ~~13~~, wherein the at least ~~one~~two syringes ~~comprise~~comprises a first syringe, a second syringe and a third syringe.
5. (Currently Amended) The drug delivery device of claim 4, wherein the at least ~~one~~two syringe pumps ~~comprise~~comprises a first syringe pump operably connected to the first syringe, a second syringe pump operably connected to the second syringe and a third syringe pump operably connected to the third syringe.
6. (Currently Amended) The drug delivery device of claim 5, further comprising a third fluid reservoir~~wherein the at least one fluid reservoir comprises a first fluid reservoir connected to the first syringe by a first syringe inlet, a second fluid reservoir connected to the second syringe by a second syringe inlet and a third fluid reservoir connected to the third syringe by a third syringe inlet.~~
7. (Currently Amended) The drug delivery device of claim 6, wherein the plurality of~~at least one~~ disposable tubes comprises a first syringe inlet connecting the first fluid reservoir to the first syringe, a second syringe inlet connecting the second fluid reservoir to the second syringe, a third syringe inlet connecting the third reservoir to the third syringe, a first syringe outlet connected to the first syringe, a second syringe outlet connected to the second syringe, a third syringe outlet connected to the third syringe, a connecting tube that connects the first and second syringe outlets to the third syringe outlet and a system outlet that connects the connecting tube and third syringe outlet to the at least one catheter.
8. (Original) The drug delivery device of claim 7, wherein the at least one catheter comprises a catheter connected to the system outlet by a catheter outlet.

9. (Previously Presented) The drug delivery device of claim 8, wherein the at least one pinch valve comprises a first pinch valve with its first position containing the first syringe inlet and its second position containing the first syringe outlet, a second pinch valve with its first position containing the second syringe inlet and its second position containing the second syringe outlet, a third pinch valve with its first position containing the third syringe inlet and its second position containing the third syringe outlet, and a fourth pinch valve with its first position containing the catheter outlet.

10. (Previously Presented) The drug delivery device of claim 9, further comprising a waste outlet that is connected to the system outlet and that is contained by the second position of the fourth pinch valve, so that when the first position of the fourth pinch valve is open, the second position of the fourth pinch valve is closed and fluid is allowed to pass between the system outlet and the catheter outlet, and when the second position of the fourth pinch valve is open, the first position of the fourth valve is closed and fluid is allowed to pass between the system outlet and the waste outlet.

11. (Previously Presented) The drug delivery device of claim 10, further comprising a controller that is operably connected to the first, second, and third syringe pumps and that is operably connected to the first, second, third, and fourth pinch valves, such that the controller automatically controls the movement of the first, second, and third syringe pumps and controls the movement of the first and second positions of each of the first, second, third, and fourth pinch valves.

12. (Currently Amended) The drug delivery device of claim 5, wherein the ~~at least one fluid reservoir comprises a~~ first fluid reservoir is connected to the first syringe by a first syringe inlet and ~~thea~~ second fluid reservoir is connected to the second syringe by a second syringe inlet.

13. - 15. (Canceled)

16. (Currently Amended) The drug delivery device of claim 5, wherein ~~one of the at least one reservoirs~~ the first fluid reservoir contains a drug.

17. (Currently Amended) The drug delivery device of claim 5, wherein ~~one of the at least one reservoirs~~ the second fluid reservoir contains a saline solution.

18. - 42. (Canceled)

43. (New) A drug delivery device for animals comprising a housing that holds:

- a. at least a first, second and third tube connector;
- b. at least a first and second syringe inlet tube, each with a first end and a second end, wherein the second end of the first syringe inlet tube is connected to the first tube connector and the second end of the second syringe inlet tube is connected to the second tube connector;
- c. at least a first and second syringe, the first and second syringes being connected to the first and second tube connector, respectively;
- d. at least a first and second syringe outlet tube, each with a first end and a second end, wherein the first end of the first syringe outlet tube is connected to the first tube connector and the second end of the first syringe outlet tube is connected to the third tube connector and wherein the first end of the second syringe outlet tube is connected to the second tube

connector and the second end of the second syringe outlet tube is connected to the third tube connector;

d. at least a first and second fluid reservoir wherein the first fluid reservoir is connected to the first end of the first syringe inlet tube and the second first fluid reservoir is connected to the first end of the second syringe inlet tube;

e. at least one catheter placed into an animal;

f. a system outlet tube with a first end and a second end, wherein the first end of the system outlet tube is connected to the catheter and the second end of the outlet tube is connected to the third tube connector; and

g. at least a first and second pinch valve, the first pinch valve having a first position through which the first syringe inlet tube passes and a second position through which the first syringe outlet tube passes and the second pinch valve having a first position through which the second syringe inlet tube passes and a second position through which the second syringe outlet tube passes, wherein in each of the first and second pinch valves only one of the first or second position opens while the other position remains closed in order to control fluid passing through the syringe inlet tubes, the syringe outlet tubes, the system outlet tube and the catheter.

44. (New) The drug delivery device of claim 43 wherein the first and second syringe inlet tubes, the first and second syringe outlet tubes, and the system outlet tubes are all disposable tubes.

45. (New) The drug delivery device of claim 43 further comprising electronic circuitry that controls the opening and closing of the first and second positions of each of the at least first and second valves.

46. (New) The drug delivery device of claim 43 further comprising a fourth tube connector connected to the first end of the system outlet, a waste tube with a first end and a second end, wherein the first end is connected to the fourth tube connector, and a catheter inlet tube with a first end connected to the fourth tube connector and the second end connected to the catheter.

47. (New) The drug delivery device of claim 46 further comprising a third pinch valve with a first position through which the catheter inlet tube passes and a second position through which the waste tube passes, wherein only one of the first or second position opens while the other position remains closed in order to allow fluid to either pass through the waste tube or catheter inlet tube.